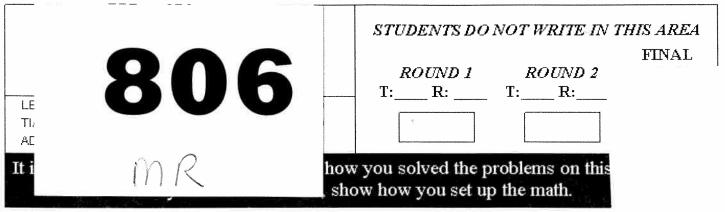
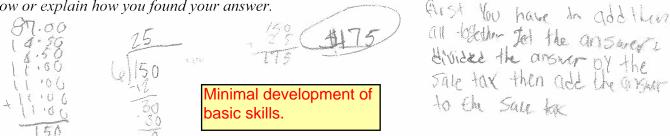
2007-08 Idaho 8th Grade Direct Mathematics Assessment



- 1) Michelle wants to buy a CD player at Marty's Electronics for \$87.00, a case for \$14.50, ba and 4 CD's for \$11.00 each.
 - a) How much will it cost Michelle to buy what she wants at Marty's Electronics, including a 6% sales tax? Show or explain how you found your answer.



- b) If Michelle saves \$7.50 a week, how many weeks will it take her to have enough money to buy everything she wants? Show or explain how you found your answer.
- c) Michelle receives \$30.00 for her birthday. This is what fraction of the total cost? *Show or explain how you found your answer.*

Minimal evidence of understanding of situations.

750 30 780 175 Fractionary

You Just Put 175 3.94780 178 0.2419 30 to 7.50

d) Michelle has a coupon for 15% off her purchases. With this discount, what would her CD player, case, batteries, and 4 CD's cost before sales tax? Show or explain how you found your answer.

\$150 before Salver

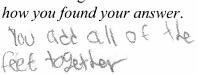
You add all of the stems together

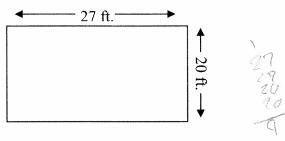
Read problems 2, 3, 4, and 5 on this and the next two pages.

Select three problems to answer. Answer ALL of the parts of the three problems you select to answer.

Cross out the one problem that you do not choose to answer.

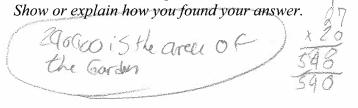
- 2) Sarah has a garden that is 27 ft. long and 20 ft. wide.
 - a) What is the perimeter of the garden? Show or explain how you found your answer.





b) What is the area of the garden?

Show or explain how you found your answer.



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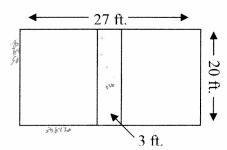
c) Sarah wants to place a block border around the outside edges of her garden. If each block is 6 in. by 6 in., how many blocks will she need to complete the border? Show or explain how you found your answer.

Lack of process development.

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d) Sarah would also like to use the same size blocks to place a path down the center of the garden. The path will be 3 ft. wide. How many total blocks will she need for the border and the path? Show or explain how you found your answer.



1620 total blocks she

14en 8/XZG14

Minimal problem-solving strategies.

3) The following table shows scores for students in Mr. Holverson's math class.

Students Test Scores

Name	Test 1	Test 2	Test 3	Test 4
Joe	87	82	-90	4/96
Su-ling	94	89	90 + 1	78
Donna	62	74	95	92
Blake	87	79	-85	+/ 88
Carlos	78	79	-85 +1	84

a) Find the mean (average), median, and mode for Test 3. Show or explain how you found your answers.

Mant 89 Median 15 Mile=90,85

Development toward proficiency of basic skills.

Median Soust fand the one in the middle mude I found the tosts and then one that was on the divided I by them test most

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b) What is the mean of Joe's four test scores? Show or explain how you found your answer.

17,067 all of sors test somes

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Minimal use of basic thinking skills.

c) If a fifth test is given, what score must Joe get to have an overall average of at least 90? Show or explain how you found your answer. t found iny

he should get at least

Minimal evidence of understanding of situation.

QUENTER BY Will at his Stores that At WHI CALL HIM.

d) Which test was the easiest for the class? How do you know? Show or explain how you found your

answers.

J Rund My Girsun H Can Mind the test scines

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- 4) Simon and his sister wanted to see how long it would take to walk all the way around the department store parking lot near their home. Starting in one corner of the lot, they walked east for 156 yards. They turned south and walked for 200 yards, then walked 64 yards west. Next they went 112 yards north, 92 yards west, and 88 yards north.
 - a) Draw a diagram of the path they traveled and label all the distances.



- b) How many total yards did they walk? How many total feet did they walk? Show or explain how you found your answers.
- c) If they walked at a constant rate of four feet per second without stopping, how long did their walk take? Show or explain how you found your answers.
- Soft drinks come in three sizes at the movie theater: small, medium, and large. The large is twice the size of the medium. The small is 1/3 the size of the large.
 - a) Let **m** represent the size of the medium drink. Write algebraic expressions in terms of **m** to represent the small and large drinks. Show or explain how you found your answers. I Just touch

Inadequate mathematical vocabulary, use of symbols and communication skills.

b) If the medium drink is 18 ounces, how many ounces will the small drink hold? How many ounces will Subjected 18 to 13 to 90+ the large drink hold? Show or explain how you found your answers.

Small Bounces

c) The small drink costs \$1.80. The medium drink costs \$2.50. The large drink costs \$4.50. What is the cost per ounce for each size? Show or explain how you found your answers. I Shirard

7.78 Recounce

Inappropriate process.